WHAT IS CLAIMED IS:

1	1. A method for facilitating detection of a threat, the
2	method comprising:
3	i) operating a transmitter to transmit signals in the
4	direction of a plurality of cells to pan a scene
5	corresponding to said plurality of cells, at least some
6	cells corresponding to different ranges relative to the
7	transmitter;
8	ii) operating a detector to detect reflected signals
9	during an analysis period received from said plurality of
10	cells; and
11	iii) determining a threat reference threshold for the
12	analysis period as a function of the reflected signals
13	detected during the analysis period, said step of
14	determining a threat threshold including:
15	measuring detected reflected signals
16	corresponding to at least some of said plurality
17	of said cells to generate a measured signal value
18	for each particular one of said at least some
19	cells;
20	modifying the measured signal values
21	corresponding to some particular ones of said at
22	least some cells by a distance factor
23	corresponding to the distance the particular one
24	of the cells is from the transmitter to generate
25	a modified measured signal value for each of said
26	some particular ones of said cells; and
27	generating the threat reference
28	threshold as a function of at least some of the
29	modified measured signal values.

- 1 2. The method of claim 1, wherein generating the threat
- 2 reference threshold includes:
- 3 averaging the modified measured signal values
- 4 corresponding to a plurality of cells in which at least one
- 5 human being is located; and
- 6 and establishing said threat reference threshold
- 7 from the generated average.
- 1 3. The method of claim 2, further comprising:
- 2 comparing the modified measured signal values of
- 3 at least some cells to the threat reference threshold; and
- 4 signaling a threat when said comparison indicates
- 5 that the modified measured signal value of one of said at
- 6 least some cells exceeds said threat reference threshold.
- 1 4. The method of claim 3, wherein signaling a threat
- 2 includes:
- displaying an image corresponding to said
- 4 plurality of cells on a display device; and
- 5 locating a visual marker on the portion of
- 6 the displayed image corresponding to each cell that has a
- 7 modified measured signal value that exceeds said threat
- 8 reference threshold.
- 1 5. The method of claim 4, wherein said step of displaying
- 2 an image includes:
- 3 operating a processor to generate a perspective
- 4 view of the plurality of cells, the perspective view
- 5 including:
- 6 preselected shapes used to indicate detected
- 7 information about different cells; and
- 8 cell distance information.

- 1 6. The method of claim 3, further comprising:
- 2 marking displayed cells having modified measured
- 3 signal values exceeding said threshold in a distinctive
- 4 manner on said display to distinguish them from displayed
- 5 cells which do not have modified measured signal values
- 6 exceeding said threat reference level.
- 1 7. The method of claim 6, wherein marking displayed cells
- 2 in a distinctive manner includes using a first display
- 3 color for cells having modified a measured signal value
- 4 exceeding said threat reference level and a second color
- 5 for cells which do not have a modified measured signal
- 6 value exceeding said threat reference level, said first
- 7 color being different from said second color.
- 1 8. The system of claim 7, further comprising:
- 2 receiving a friend indicator signal from a cell with a
- 3 modified measured signal value exceeding said threat
- 4 reference level; and
- 5 distinctively marking the cell corresponding to the
- 6 received friend indicator signal to indicate the presence
- 7 of a friend in the corresponding cell.
- 1 9. The method of claim 8, further comprising:
- 2 leaving cells which do not have a human presence blank
- 3 in said displayed image.
- 1 10. The method of claim 1,
- wherein said transmitted signals are radar signals,
- 3 wherein each cell corresponds to a different
- 4 transmitter azimuth and range; and

- 5 wherein the method further comprises:
- 6 periodically repeating steps i, ii, and iii.
- 1 11. The method of claim 1, wherein said measured signal
- 2 values are energy values.
- 1 12. A system for detecting a threat located in one of a
- 2 plurality of areas corresponding to different locations,
- 3 the system comprising:
- 4 a transmitter that transmits radar signals in the
- 5 direction of said plurality of areas;
- 6 a detector which detects a reflected portion of
- 7 the signals, the detector measuring the energy in the
- 8 detected reflected portion of the signals corresponding to
- 9 each area, to generate a detected energy measurement for
- 10 each particular one of said areas;
- means for modifying the detected energy
- 12 measurements corresponding to some areas by a distance
- 13 factor corresponding to the distance the area is from the
- 14 transmitter to generate a modified measured detected energy
- 15 value for each of said some areas;
- means for generating a threat reference threshold
- 17 as a function of at least some of the modified measured
- 18 detected energy values; and.
- a comparator for comparing at least some of the
- 20 modified detected energy measurements to said threat
- 21 reference threshold to identify areas of possible threats
- 22 indicated by the modified detected energy measurement of an
- 23 area exceeding said threat reference threshold.
- 1 13. The system of claim 12, wherein said means for
- 2 generating the threat reference threshold includes:

- means for averaging the modified detected energy
- 4 values corresponding to a plurality of cells.
- 1 12. The system of claim 12, further comprising:
- 2 a display processor; and
- a display, said display processor generating a visual
- 4 representation on said display of at least some of said
- 5 plurality of areas and indicating on said visual
- 6 representation areas having modified detected energy values
- 7 which exceed said threat reference threshold.
- 1 14. The system of claim 13, wherein said visual
- 2 representation includes distance information.
- 1 15. The system of claim 14, wherein a first display color
- 2 is used to mark areas of the visual representation
- 3 corresponding to areas having modified detected energy
- 4 values which exceed said threat reference threshold and a
- 5 second display color is used to mark areas having modified
- 6 detected energy values which are below said threat
- 7 reference threshold, said first and second colors being
- 8 different.
- 1 16. The system of claim 15, further comprising:
- 2 a receiver for receiving friend indicator signals from
- 3 said areas, said visual representation including a friend
- 4 indicator marker on display areas corresponding to an area
- 5 from which a friend indicator signal was received.
- 1 17. The system of claim 16, wherein said visual
- 2 representation includes a visual image of the physical

- 3 areas to which each visual representation image area
- 4 corresponds.
- 1 18. A method for facilitating detection of a threat, the
- 2 method comprising:
- i) operating a transmitter to transmit signals in the
- 4 direction of a plurality of cells to pan a scene
- 5 corresponding to said plurality of cells;
- 6 ii) operating a receiver to detect reflected signals
- 7 during an analysis period received from said plurality of
- 8 cells, at least some of said cells being at different
- 9 distances from the receiver; and
- 10 iii) determining a threat reference threshold for the
- 11 analysis period as a function of the reflected signals
- 12 detected during the analysis period, said step of
- 13 determining a threat threshold including:
- 14 measuring detected reflected signals
- corresponding to at least some of said plurality
- of said cells to generate a measured signal value
- for each particular one of said at least some
- 18 cells;
- modifying the measured signal values
- 20 corresponding to some particular ones of said at
- least some cells by a distance factor
- corresponding to the distance the particular one
- of the cells is from the receiver to generate a
- 24 modified measured signal value for each of said
- some particular ones of said cells; and
- generating the threat reference
- 27 threshold as a function of at least some of the
- 28 modified measured signal values.

- 1 19. The method of claim 18, wherein generating the threat
- 2 reference threshold includes:
- 3 averaging the modified measured signal values
- 4 corresponding to a plurality of cells in which at least one
- 5 human being is located; and
- 6 and establishing said threat reference threshold
- 7 from the generated average.
- 1 20. The method of claim 19, wherein the measured signal
- 2 values are energy values.
- 1 21. The method of claim 18, wherein said scene is an
- 2 outdoor scene.
- 1 22. The method of claim 28, wherein said scene is an
- 2 indoor scene.